

ONU Management Configuration Commands

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Chapter 1 Local ONU Management Commands

1.1 gpon bind-onu

Syntax

To set the authentication password and the binding relation between the ONU serial number and the GPON port, run the following command. To return to the default setting, use the no form of this command.

gpon bind-onu sn *serial-number* [**password** *word*] [*onu-sequence*]

no gpon bind-onu sn *serial-number*

no gpon bind-onu sequence *onu-sequence*

Parameters

Parameters	Description
<i>serial-number</i>	ONU serial number. The format is 16 hexadecimal characters.
<i>onu-sequence</i>	Value range: 1-128

Default Value

The default value of *serial-number* is the smallest ONU serial number which is not occupied.

Command Mode

GPON port configuration mode

Usage Guidelines

Example

The following example shows how to set the binding between interface GPON0/1 whose serial number is 1 and ONU whose SN is 5457475020150020, and set the authentication password to123.

```
Switch_config# interface GPON0/1
```

```
Switch_config_GPON0/1# gpon bind-onu sn 5457475020150020 password 123 1
```

1.2 gpon encryption

Syntax

To enable global downlink encryption function, run the following command. To return to the default setting, use the no form of this command.

gpon encryption {enable | disable}

no gpon encryption

Parameters

Parameters	Description
enable	Enables the global downlink encryption.
disable	Disables the global downlink encryption.

Default Value

Enables the encryption

Command Mode

Global Configuration mode

Usage Guidelines

After the downlink encryption is enabled, only the flow of the virtual interface will be encrypted.

Example

The following example shows how to enable the downlink encryption in the global configuration mode.

```
Switch_config# gpon encryption enable
```

```
Switch_config# gpon encryption disable
```

1.3 gpon onu-authen-method

Syntax

To set the ONU authentication mode, run the following command. At present you can select no authentication and conduct SN authentication and use password authentication. To return to the default setting, use the no form of this command.

gpon onu-authen-method {disable | sn | password}

no gpon onu-authen-method

Parameters

Parameters	Description
disable	If the ONU authentication is not conducted, the registration then automatically passes the authentication.
sn	Conducts SN authentication
password	Uses Password authentication

Default Value

If the ONU authentication is not conducted, the registration then automatically passes the authentication.

Command Mode

Global configuration mode

Usage Guidelines

If the ONU authentication mode is configured and ONU registration is finished, the authentication will be activated to obtain the corresponding bandwidth and ONU remote configuration.

Conditions of ONU passes authentication under different modes: in SN mode, only ONU binding with the command "gpon bind-onu" can pass the authentication; in password mode, only the command "gpon bind-onu sn ... password..." configuring with the correct password can pass the authentication.

Example

The following example shows how to configure the authentication method of ONU to SN authentication:

```
Switch_config# gpon onu-authen-method sn
```

1.4 gpon onu-discover-mode

Syntax

To configure the discovery mechanism of ONU, run the following command. To return to the default setting, use the no form of this command.

gpon onu-discover-mode {auto | disable}

Parameters

Parameters	Description
auto	Automatically discover the new on-line ONU
disable	Disable the discovery for the new online ONU

Default Value

auto discovery

Command Mode

GPON port configuration mode

Usage Guidelines

There is irrelevant between ONU discovery and whether ONU is in the binding list. If ONU discovery is disabled, neither new ONU discovery information will be received nor new ONU will be activated.

Example

The following example shows how to disable interface GPON0/1 to discover new on-line ONU.

```
Switch_config# interface GPON0/1
```

```
Switch_config_GPON0/1# gpon onu-discover-mode disable
```

1.5 gpon broadcast-gem-port

Syntax

To configure the system global GEM Port, run the following command. To return to the default setting, use the no form of this command.

gpon broadcast-gem-port *gem-port-id*

no gpon broadcast-gem-port

Parameters

Parameters	Description
<i>gem-port-id</i>	Value range of GEM Port: 1-4094

Default Value

None

Command Mode

Global configuration mode

Usage Guidelines

None

Example

The following example shows how to configure the system global GEM Port to 500.

```
Switch_config# gpon broadcast-gem-port 500
```

1.6 gpon key-exchange-interval

Syntax

To set the global secret key in the global mode, run the following command. To return to the default setting, use the no form of this command.

gpon key-exchange-interval *ex-interval*

no gpon key-exchange-interval

Parameters

Parameters	Description
<i>ex-interval</i>	The time interval of secret key exchange is 1 to 3600ms.

Default Value

gpon key-exchange-interval 3600

Command Mode

Global configuration mode

Usage Guidelines

None

Example

The following example shows how to set the global secret key to 3000ms:

```
Switch_config# gpon broadcast-gem-port 3000
```

1.7 gpon deactivate-onu

Syntax

To deactivate the designated ONU, run the following command. To return to the default setting, use the no form of this command.

gpon deactivate-onu interface *slot/port:sequence*

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

The command takes effect only when ONU is in the activated state.

Example

The following example shows how to deactivate the ONU whose GPON0/1 interface numbered 1.

```
Switch# gpon deactivate-onu interface GPON 0/1:1
```

1.8 gpon activate-onu

Syntax

To activate the designated ONU, run the following command.

gpon activate-onu interface *slot/port:sequence*

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

The command takes effect only when ONU is in the unactivated state.

Example

The following example shows how to activate the ONU whose GPON0/1 interface numbered 1.

```
Switch# gpon deactivate-onu interface GPON 0/1:1
```

1.9 gpon disable-onu

Syntax

To disable the designated ONU, run the following command.

gpon disable-onu interface *slot/port:sequence*

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

When ONU is shut off, ONU will disable the optical module lumination and has no response to other modes except the enable command. Unless ONU is enabled or restarted after power off, ONU will not be discovered or activated.

The command is usually used for trouble shooting of long lumination ONU.

The function is not realized.

Example

The following example shows how to disable the ONU whose GPON0/1 interface numbered 1.

```
Switch#gpon disable-onu interface GPON 0/1:1
```

1.10 gpon enable-onu

Syntax

To enable the designated ONU, run the following command.

gpon enable-onu interface *slot/port:sequence*

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

The command takes effect only when ONU is disabled and the ONU connects to the original PON port link. Enabling ONU cannot guarantee it enters the activation status. ONU will enter the regular discovery authentication activation process.

The function is not realized.

Example

The following example shows how to disable the ONU whose GPON0/1 interface numbered 1.

```
Switch#gpon enable-onu interface GPON 0/1:1
```

1.11 gpon reboot onu

Syntax

To restart the designated ONU, run the following command.

```
gpon reboot onu interface slot/port:sequence
```

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

The command takes effect only when ONU is in the activated state.

Example

The following example shows how to restart the ONU whose GPON0/1 interface numbered 1.

```
Switch#gpon reboot onu interface GPON 0/1:1
```

1.12 gpon update-onu

Syntax

To update the ONU version remotely through OLT, run the following command.

gpon update-onu *image_name* **interface gpon** {*slot/port[:sequence]* | *slot/port sequence_value*}

Parameters

Parameters	Description
<i>image_name</i>	Contains up to 32 characters.
<i>slot/port[:sequence]</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.
<i>sequence_value</i>	Value range: 1, 1-7.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

Unless the to-be-updated software matches the corresponding ONU type can this software not be updated.

During the update process of ONU software, do not cut off the power of ONU. After the completion of ONU update, OLT will notify users of the successful ONU update by the way of log, and ONU will use the updated version for rebooting.

After the ONU version is updated and restarted, you need to run **gpon commit-image interface** on OLT to confirm the ONU version.

Example

The following example shows how to update the ONU version on port GPON0/1:1.

```
Switch# gpon update-onu image.bin interface gpon 0/1:1
```

1.13 gpon activate-image

Syntax

To activate the ONU software version, run the following command.

gpon activate-imge interface gpon *slot/port[:sequence]*

Parameters

Parameters	Description
<i>slot/port[:sequence]</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

Example

The following example shows how to activate the ONU software version on port GPON0/1:1.

```
Switch# gpon activate-image interface gpon 0/1:1
```

1.14 gpon commit-imge

Syntax

To confirm the upgrade of the ONU version, run the following command.

```
gpon commit-imge interface gpon slot/port[:sequence]
```

Parameters

Parameters	Description
<i>slot/port[:sequence]</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

The command is used after the ONU version is upgraded, restarted and re-registered.

Example

The following example shows how to update the ONU software version under interface GPON0/1:1.

```
Switch# gpon commit-image interface gpon 0/1:1
```

1.15 gpon profile

Syntax

To create and enter the modification mode of corresponding ONU configuration template, run the following command.

```
gpon profile { onu-tcont | onu-virtual-port | onu-tcont-virtual-port-bind |  
onu-flow-mapping | onu-uni | onu-vlan | onu-rate-limit} name
```

To delete the ONU configuration template, run the following command.

```
no gpon profile { onu-tcont | onu-virtual-port | onu-tcont-virtual-port-bind |  
onu-flow-mapping | onu-uni | onu-vlan | onu-rate-limit} name
```

Parameters

Parameters	Description
onu-tcont	ONU T-Cont Configuration Template
onu-virtual-port	ONU virtual port configuration template: The virtual port configuration is applied to ONU and takes effect on GEM Port
onu-tcont-virtual-port-bind	ONU T-Cont and virtual port binding relation configuration template
onu-flow-mapping	ONU flow mapping configuration template
onu-uni	ONU user interface configuration template
onu-vlan	ONU VLAN configuration template
onu-rate-limit	ONU rate-limit configuration template
<i>name</i>	Sets the template name.

Default Value

gpon profile tcont-default

gpon profile virport-default

```
gpon profile tvbind-default
```

```
gpon profile flow-default
```

Command Mode

Global configuration mode

Usage Guidelines

When the configuration template is used by ONU, it cannot be deleted.

Example

The following example shows how to create ONU virtual port configuration template of onu-virtual-port-test and delete the template.

```
Switch_config# gpon profile onu-virtual-port onu-virtual-port-test
```

```
Switch_config# no gpon profile onu-virtual-port onu-virtual-port-test
```

1.16 gpon onu tcont-virtual-port-bind-profile

Syntax

To bind ONU T-Cont and virtual port binding relation configuration template, run the following command.

```
gpon onu tcont-virtual-port-bind-profile name
```

To return to the default setting, use the no form of this command.

```
no gpon onu tcont-virtual-port-bind-profile
```

Parameters

Parameters	Description
<i>name</i>	Bound ONU T-Count and virtual port binding relation configuration template.

Default Value

```
gpon onu tcont-virtual-port-bind-profile tvbind-default
```

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows under interface GPON0/1:1, configure a template named tvbind-test which involves the binding relation of ONU T-cont and the virtual port.

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu tcont-virtual-port-bind-profile tvbind-test
```

1.17 gpon onu flow-mapping-profile

Syntax

To bind the flow mapping configuration template ONU used, run the following command.
To return to the default setting, use the no form of this command.

gpon onu flow-mapping-profile *name*

no gpon onu flow-mapping-profile

Parameters

Parameters	Description
<i>name</i>	ONU bound flow mapping configuration template

Default Value

gpon onu flow-mapping-profile flow-default

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows how to configure a mapping configuration template named flow-mapping-test under interface GPON0/1:1.

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu flow-mapping-profile flow-mapping-test
```

1.18 gpon onu uni uni-profile

Syntax

To bind user port configuration template ONU used, run the following command.

gpon onu uni *port* uni-profile *name*

To unbind user port configuration template ONU used, run the following command.

no gpon onu uni *port* uni-profile

Parameters

Parameters	Description
<i>Port</i>	ONU user port needs to be bound
<i>name</i>	bound ONU user port configuration template

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows under interface GPON0/1:1, configure an ONU user port configuration template named tvbind-testonu-uni-test:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu uni 1 uni-profile onu-uni-test
```

1.19 gpon onu uni vlan-profile

Syntax

To bind VLAN configuration template ONU used, run the following command.

gpon onu uni *port* vlan-profile *name*

To unbind VLAN configuration template ONU used, run the following command.

no gpon onu uni port vlan-profile

Parameters

Parameters	Description
<i>Port</i>	ONU user port needs to be bound
<i>name</i>	bound ONU VLAN configuration template

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows under interface GPON0/1:1, configure an ONU VLAN configuration template named onu-vlan-test:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu uni 1 vlan-profile onu-vlan-test
```

1.20 gpon onu uni shutdown

Syntax

To enable or disable the designated ONU user port, run the following command.

gpon onu uni port {shutdown | noshutdown}

Parameters

Parameters	Description
<i>Port</i>	user port needs to be enabled or disabled

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows under interface GPON0/1:1, disable an ONU user port configuration template:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu uni 1 shutdown
```

1.21 gpon onu virtual-port shutdown

Syntax

To enable or disable the designated ONU virtual port, run the following command.

gpon onu virtual-port *port* {shutdown | no-shutdown}

Parameters

Parameters	Description
<i>Port</i>	virtual port needs to be enabled or disabled

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows under interface GPON0/1:1, disable an ONU virtual port 2 configuration template:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu virtual-port 2 shutdown
```

1.22 gpon onu virtual-port gem-port

Syntax

To compulsorily designate GEM Port which the virtual-port corresponds, run the following command.

gpon onu virtual-port *port* **gem-port** *gem-port-id*

To return to the default setting, use the no form of this command.

no gpon onu virtual-port *port* **gem-port**

Parameters

Parameters	Description
<i>Port</i>	The virtual port needs to be compulsorily designated.
<i>gem-port-id</i>	Value range of GEM Port: 1-4094

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

The command can be used to correctly generate a virtual port-GEM Port. Later the command may be deleted, and GEM port will be generated automatically.

Example

The following example shows under interface GPON0/1:1, configure an ONU virtual port numbered 2 to is corresponding GEM Port 500.

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu virtual-port 2 gem-port 500
```

1.23 gpon onu virtual-port downstream rate-limit

Syntax

To limit the rate of virtual port downlink flow, run the following command. To return to the default setting, use the no form of this command.

gpon onu virtual-port *port* downstream rate-limit *value*

no gpon onu virtual-port *port* downstream rate-limit

Parameters

Parameters	Description
<i>Port</i>	rate-limited virtual port
<i>value</i>	rate limit. Unit 64kbps. The value range is 1 to 38880.

Default Value

None

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows how to set the flow limit of the GPON0/1:1 ONU virtual port numbered 2 to 10 units:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu virtual-port 2 downstream rate-limit 10
```

1.24 gpon onu pm

Syntax

To enable ONU performance statistics, run the following command.

gpon onu pm {enable | disable}

no gpon onu pm

To disable ONU performance statistics, run the following command.

Parameters

Parameters	Description
enable	Enables ONU performance statistics.
disable	Disables ONU performance statistics.

Default Value

`gpon onu pm disable`

Command Mode

ONU port configuration mode

Usage Guidelines

Example

The following example shows how to enable the performance statistics of interface GPON0/1:1:

```
Switch_config# interface GPON0/1:1
```

```
Switch_config_GPON0/1:1# gpon onu pm enable
```

1.25 gpon onu fec-tx

Syntax

To enable or disable ONU uplink FEC, run the following command.

[no] gpon onu fec-tx

Parameters

None

Default Value

ONU uplink FEC is disabled by default.

Command Mode

ONU port configuration mode

Usage Guidelines

The command is used for OLT to inform ONU enabling uplink FEC forwarding. Some ONU may not support FEC function and may not involve FEC in its packets. GPON port will always correct errors in FEC information of the uplink packets. It handles packets with FEC information regularly. FEC enabling will not be considered as failure.

Example

The following example shows how to enable the uplink FEC of ONU interface GPON0/1:1.

```
Switch_config# interface GPON0/1:1  
Switch_config_GPON0/1:1# gpon onu fec-tx
```

1.26 gpon fec-tx

Syntax

To enable or disable downlink FEC of the PON port, run the following command:

[no] gpon fec-tx

Parameters

None

Default Value

The downlink FEC of the PON port is enabled.

Command Mode

GPON port configuration mode

Usage Guidelines

Some ONU may not support FEC function and may not handle FEC in the downlink packets. After the downlink FEC function is enabled, GPON port will involve FEC information in all downlink packets.

Note: Switching FEC working mode when the PON interface is working will lead to the interface disabled and then restart. ONU flow exists a certain time interruption.

Example

The following example shows how to enable downlink FEC of interface GPON0/1.

```
Switch_config# interface GPON0/1  
Switch_config_GPON0/1# gpon onu pm enable
```


1.27 show gpon interface onu basic-info

Syntax

To display the basic ONU information, run the following command.

show gpon interface gpon slot/port:sequence onu basic-info

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The basic ONU information cannot be displayed until ONU is registered.

Example

The following example shows how to display the basic ONU information of interface GPON/1:1:

```
Switch#show gpon interface gpon 0/1:1 onu basic-info
Serial number          TWGP:20150093 (5457475020150093)
Vendor id              TWGP (54574750)
Version                R1 (523100000000000000000000000000)
Traffic management option Priority and rate (2)
Battery backup         Disable monitoring (0)
Admin state            Lock (1)
Operational state      Disabled (1)

Equipment id           RTL9601B
OMCC version            ITU-T G.984.4 (06/04)
Vendor product code     0
Security capability     AES-128 (1)
Security mode           AES-128 (1)
Total priority queue number 32
```

```

Total traffic scheduler number 8
Total GEM port number          32
Image #0 version                V1.7.1-151230 (56312E372E312D31353132333000)
Image #0 status                 valid/inactive/committed
Image #1 version                V1.7.1-151230 (56312E372E312D31353132333000)
Image #1 status                 valid/active/uncommitted
Piggyback DBA reporting         Mode 0 only (0)
Whole ONU DBA reporting         Not supported (0)
Distance                        0
Image update state              None(0)

```

1.28 show gpon interface onu optical-transceiver-diagnosis

Syntax

To show the information of ONU corresponding optical module parameter, run the following command.

show gpon interface gpon *slot/port:sequence* onu optical-transceiver-diagnosis

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The basic ONU information cannot be displayed until ONU is registered.

Example

The following example shows how to display the basic ONU information of interface GPON/1:1:

```

Switch_config#show gpon interface gpon 0/1:1 onu optical-transceiver-diagnosis
interface    RxPower(dBm)    TxPower(dBm)
-----

```

gpon0/1:1 -24.6 2.5

1.29 show gpon interface onu port statistics

Syntax

To show packet statistics on the ONU user port, run the following command.

show gpon interface gpon *slot/port:sequence* **onu port** *port-num* {**current-statistics** | **history-statistics**}

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.
<i>port-num</i>	User port number

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

This command is used to display the packet statistics on the ONU user interface.

Example

The following example shows how to show packet statistics of gpon interface 0/1:1:

Switch_config# **show gpon interface gpon 0/1:1 onu port 1 current-statistics**

1.30 show gpon interface onu virtual-port statistics

Syntax

To display packet statistics of ONU virtual port, run the following command:

how gpon interface gpon *slot/port:sequence* **onu virtual-port** *port-num* {**current-statistics**|**history-statistics**}

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.
<i>port-num</i>	virtual port number

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

This command is used to display the packet statistics of the ONU virtual port.

Example

The following example shows how to show attribute statistics of gpon interface 0/1:1:

```
Switch# show gpon interface gpon 0/1:1 onu virtual-port 1 current-statistics
virtual-port 1  Gemport 257  Interval 00'00"
RxTotalFrames    0
TxTotalFrames    0
RxTotalBytes     0
TxTotalBytes     0
EncryptKeyErrors 0
```

1.31 show gpon onu-profile

Syntax

To show ONU configuration module information, run the following command:

```
show gpon
{onu-flow-mapping-profile|onu-rate-limit-profile|onu-tcont-profile|onu-tcont-virtual-port-bind-profile|onu-uni-profile|onu-virtual-port-profile|onu-vlan-cfg-profile}
[profile-name]
```

Parameters

Parameters	Description
onu-flow-mapping-profile	ONU flow mapping configuration template
onu-rate-limit-profile	ONU rate-limit configuration template
onu-tcont-profile	ONU T-Cont Configuration Template
onu-tcont-virtual_port-bind-profile	The binding relation configuration template of ONU T-Cont and virtual port.
onu-uni-profile	ONU user interface configuration template
onu-virtual-port-profile	ONU virtual port configuration template: The virtual port configuration is applied to ONU and takes effect on GEM Port.
onu-vlan-cfg-profile	ONU VLAN configuration template
<i>profile-name</i>	Sets the template name.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The command is used to show the configuration template name and its pre-configuration command. The template name can be omitted and under such circumstance all templates of this type will be shown.

Example

The following example shows how to show attribute statistics of gpon interface 0/1:1:

```
Switch# show gpon onu-tcont-virtual_port-bind-profile
```

```
-----
ONU Tcont Virtual port Bind Profile Id 1:
```

```
-----
Name: tvbind-default
```

```
-----
Virtual port: 1
```

```
Virtual port Profile: 1
```

```
Tcont: 1
```

```
Tcont Profile: 1
```

```

-----
-----

-----
ONU Tcont Virtual port Bind Profile Id 2:
-----
Name: tvpb-test
-----
Virtual port: 1
Virtual port Profile: 3
Tcont: 1
Tcont Profile: 2
-----
-----

```

1.32 show gpon onu-image-information interface

Syntax

To show the software version information of ONU, run the following command:

show gpon onu-image-information [**interface gpon** *slot/port:sequence*]

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The command is used to show ONU software version information. When there is no optional parameters, all ONUs will be shown. Only registered and activated ONU information supports information screen.

Example

To show all the software version information of ONU, run the following command:

Switch# **show gpon onu-image-information**

Image information of GPON0/1:1:

Image#0	V1.7.1-151230	valid	inactive	committed
Image#1	V1.7.1-151230	valid	active	uncommitted

Image information of GPON0/1:2:

Image#0	NotReady	invalid	inactive	uncommitted
Image#1	NotReady	invalid	inactive	uncommitted

Image information of GPON0/2:1:

Image#0	NotReady	invalid	inactive	uncommitted
Image#1	NotReady	invalid	inactive	uncommitted

Image information of GPON0/2:2:

Image#0	NotReady	invalid	inactive	uncommitted
Image#1	NotReady	invalid	inactive	uncommitted

Image information of GPON0/4:1:

Image#0	NotReady	invalid	inactive	uncommitted
Image#1	NotReady	invalid	inactive	uncommitted

1.33 show gpon onu-information interface

Syntax

To show ONU state information, run the following command:

show gpon onu-information [interface gpon *slot/port:sequence*]

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The command is used to show ONU interface name, SN number and activation status. Without optional parameters, all ONUs will be shown. Only registered and activated ONU information supports information screen.

Example

The following example shows how to show all ONU information.

Switch# **show gpon onu-information**

EPON0/1 has registered 2 ONUs:

IntfName	SN	Status
GPON0/1:1	5457475020150093	active
GPON0/1:2	5457475020150020	off-line

EPON0/2 has registered 2 ONUs:

IntfName	SN	Status
GPON0/2:1	5457475020150021	off-line
GPON0/2:2	535441525903260A	off-line

EPON0/4 has registered 1 ONUs:

IntfName	SN	Status
GPON0/4:1	5457475020150049	off-line

1.34 show gpon onu-status-count

Syntax

To show ONU state information statistics, run the following command:

show gpon onu-status-count

Parameters

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The command is used to show ONU state information statistics and screen information.

Example

The following example shows how to show all ONU information.

```
Switch# show gpon onu-status-count
```

```
ONU STATUS COUNT
```

```
-----
```

```
Offline:          4
Inactive:         0
Disable:          0
Active:           1
Unknow:           0
```

1.35 show gpon onu-update-status interface

Syntax

To show ONU software upgrade status, run the following command.

```
show gpon onu-update-status [interface gpon slot/port:sequence]
```

Parameters

Parameters	Description
<i>slot/port:sequence</i>	slot stands for the slot number, port stands for the GPON port number and sequence stands for the serial number.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

The command is used to show the software upgrade status of ONU. When without optional parameters, the update statistics of all ONU will be shown; when with parameters, the ONU in the update list or not will be shown. The command also supports information screen.

Example

The following example shows how to show ONU software upgrade statistics information:

```
Switch# show gpon onu-update-state
```

```
-----Counters-----
```

None:	0
Downloading:	0
Activating:	0
Committing:	0
Retry:	0
Failed:	0
Complete:	0

Chapter 2 ONU T-Cont Configuration Template

2.1 gpon-profile tcont-type

Syntax

To configure T-Cont type and bandwidth, run the following command.

gpon-profile tcont-type *type-value* [**pir** *pir-value*] [**cir** *cir-value*] [**fir** *fir-value*]

Parameters

Parameters	Description
<i>type-value</i>	T-Cont reference classification serial number defined by ITU. The value ranges from 1 to 5.
<i>pir-value</i>	The peak value bandwidth; the value ranges from 256 to 1244160.
<i>cir-value</i>	The guaranteed bandwidth; the value ranges from 256 to 1238272.
<i>fir-value</i>	The fixed bandwidth; the value ranges from 256 to 830976.

Default Value

gpon-profile tcont-type 3 pir 1024000 cir 512

Command Mode

ONU T-Cont Configuration Template Mode

Usage Guidelines

ITU pre-defines 5 common T-Cont service module classification. The definition is shown below:

	Type 1	Type 2	Type 3	Type 4	Type 5
fixed bandwidth	FIR				FIR
Guaranteed Bandwidth		CIR	CIR		CIR
Maximum bandwidth	PIR=FIR	PIR=CIR	PIR > CIR	PIR	PIR >= CIR + FIR

The value of the unfilled part is 0.

Therefore the valid command option combination is

gpon-profile tcont-type 1 fir *fir-value*

gpon-profile tcont-type 2 cir *cir-value*

gpon-profile tcont-type 3 pir *pir-value* **cir** *cir-value*

gpon-profile tcont-type 4 pir *pir-value*

gpon-profile tcont-type 5 pir *pir-value* **cir** *cir-value* **fir** *fir-value*

Example

The following example shows how to configure the T-Cont type of onu-tcont-test to 5. The peak value bandwidth is 1244160kbps, the guaranteed bandwidth is 102400kbps and the fixed bandwidth is 1024kbps.

Switch_config# **gpon profile onu-tcont** *onu-tcont-test*

Switch_config_prof_onuTcont_onu-tcont-test# **gpon-profile tcont-type 5 pir 1244160 cir 102400 fir 1024**

Chapter 3 ONU Rate-Limit Configuration Template

3.1 gpon-profile pir cir

Syntax

To configure ONU rate limit guaranteed bandwidth, run the following command:

gpon-profile pir *pir-value* **cir** *cir-value*

Parameters

Parameters	Description
<i>pir-value</i>	The peak value bandwidth; the value ranges from 256 to 1244160.
<i>cir-value</i>	The guaranteed bandwidth; the value ranges from 256 to 1244160.

Default Value

None

Command Mode

ONU rate-limit configuration template mode

Usage Guidelines

Example

The following example shows how to configure the peak value bandwidth of rate limit configuration template of ONU named "onu-rate-limit-test" to 1244160kbps and the bandwidth to 102400kbps.

```
Switch_config# gpon profile onu-rate-limit onu-rate-limit-test
```

```
Switch_config_prof_onuRatelimit_onu-rate-limit-test# gpon-profile pir 1244160 cir 102400
```

Chapter 4 ONU Virtual Port Configuration Template

4.1 gpon-profile encryption

Syntax

To configure ONU virtual port downlink encryption function, run the following command.
To return to the default setting, use the no form of this command.

gpon-profile encryption {enable | disable}

no gpon-profile encryption

Parameters

Parameters	Description
enable	To enable ONU downlink encryption, run the following command.
disable	To return to the default setting, use the no form of this command.

Default Value

gpon-profile encryption disable

Command Mode

ONU virtual port configuration template mode

Usage Guidelines

The virtual port configuration template is applied to ONU and takes effect on GEM Port.

Only the downlink encryption is enabled globally can the virtual port (need to be encrypted) adopts the encrypted downlink flow.

Example

The following example shows how to configure the downlink encryption of the virtual port configuration template of ONU named onu-virtual-port-test.

Switch_config# **gpon profile onu-virtual-port onu-virtual-port-test**

```
Switch_config_prof_onuVport_onu-virtual-port-test# gpon-profile encryption enable
```

4.2 GPON-Profile Upstream Queue

Syntax

To configure the upstream queue of the ONU virtual port, run the following command.

```
gpon-profile upstream queue num
```

Parameters

Parameters	Description
<i>num</i>	The queue number. The value ranges from 1 to 8. Queue 8 is the highest priority and queue 1 is the lowest priority.

Default Value

```
gpon-profile upstream queue 8
```

Command Mode

ONU virtual port configuration template mode

Usage Guidelines

The virtual port configuration template is applied to ONU and takes effect on GEM Port.

When multiple GEM Ports corresponds to one T-Cont, there may occur congestion. ONU adopts the reserved policy to schedule high priority queue preferentially. The adopted policy SP or WRR is determined by ONU.

ONU may not support uplink queue schedule, and the uplink rate limit can be the backup option of the congestion management.

Example

The following example shows how to configure the uplink upstream queue number of the ONU (named onu-virtual-port-test) virtual port configuration template to 7:

```
Switch_config# gpon profile onu-virtual-port onu-virtual-port-test
```

```
Switch_config_prof_onuVport_onu-virtual-port-test# gpon-profile upstream queue 7
```

4.3 GPON-Profile Upstream Rate-Limit-Profile

Syntax

To configure the ONU virtual port uplink rate limit policy, run the following command:

[no] gpon-profile upstream rate-limit-profile *name*

Parameters

Parameters	Description
<i>name</i>	bound ONU rate limit configuration template

Default Value

No rate limit configuration

Command Mode

ONU virtual port configuration template mode

Usage Guidelines

The virtual port configuration template is applied to ONU and takes effect on GEM Port.

When multiple GEM Ports corresponds to one T-Cont, there may occur congestion. ONU can set rate limit for every GEM Port under T-Cont, so that the uplink bandwidth can be distributed.

ONU may not support uplink rate limit, and the uplink queue schedule can be the backup option of the congestion management.

Example

The following example shows how to configure the uplink rate limit configuration template of ONU virtual port named "onu-virtual-port-test".

```
Switch_config# gpon profile onu-virtual-port onu-virtual-port-test
```

```
Switch_config_prof_onuVport_onu-virtual-port-test# gpon-profile upstream rate-limit-profile  
onu-rate-limit-test
```

4.4 GPON-Profile Downstream Queue

Syntax

To configure the downstream queue of the ONU virtual port, run the following command.

gpon-profile downstream queue *num*

Parameters

Parameters	Description
<i>num</i>	The queue number. The value ranges from 1 to 8. Queue 8 is the highest priority and queue 1 is the lowest priority.

Default Value

gpon-profile downstream queue 8

Command Mode

ONU virtual port configuration template mode

Usage Guidelines

The virtual port configuration template is applied to ONU and takes effect on GEM Port.

Example

The following example shows how to configure the uplink upstream queue number of the ONU virtual port configuration template named onu-virtual-port-test to 7:

```
Switch_config# gpon profile onu-virtual-port onu-virtual-port-test
```

```
Switch_config_prof_onuVport_onu-virtual-port-test# gpon-profile upstream queue 7
```

Chapter 5 ONU T-Cont and Virtual Port Binding Relation Configuration Template

5.1 GPON-Profile Virtual-Port

Syntax

To configure ONU virtual port and its corresponding T-Cont, run the following command.
To return to the default setting, use the no form of this command.

gpon-profile virtual-port *vp-index* **profile** *vp-prof-name* **tcont** *tcont-index* **profile** *tcont-prof-name*

no gpon-profile virtual-port *vp-index*

Parameters

Parameters	Description
<i>vp-index</i>	Designates virtual port index. The value ranges from 1 to 40.
<i>vp-prof-name</i>	bound ONU virtual port configuration template
<i>tcont-index</i>	Designated T-Cont index. The value ranges from 1 to 8.
<i>tcont-prof-name</i>	bound ONU T-Cont configuration template

Default Value

gpon-profile virtual-port 1 profile virport-default tcont 1 profile tcont-default

Command Mode

ONU T-Cont and virtual port binding relation configuration template mode

Usage Guidelines

After T-Cont and the virtual port binding relation configuration template is applied to ONU, every virtual port will be instantiated to GEM Port and every T-Cont index will be distributed with AllocID and conduct dynamic uplink bandwidth schedule. Multiple virtual ports can bind to a T-Cont so that the uplink bandwidth can be shared.

The same T-Cont index should share the same T-Cont template.

Example

The following example shows how to configure the ONU T-Cont and virtual port binding relation configuration template named *tvpb-test*; configure the designated virtual port to 1 and the bound ONU virtual port configuration template to *onu-virtual-port-test*, the designated T-Cont to 1, and the binding ONU T-Cont configuration template to *onu-tcont-test*.

```
Switch_config# gpon profile onu-tcont-virtual-port-bind tvpb-test
```

```
Switch_config_prof_onuTcontVportBind_tvpb-test# gpon-profile virtual-port 1 profile  
onu-virtual-port-test tcont 1 profile onu-tcont-test
```

Chapter 6 ONU Flow Mapping Configuration Template

6.1 GPON-Profile Uni

Syntax

To configure user port the ONU flow mapping item, run the following command. To return to the default setting, use the no form of this command.

gpon-profile entry *index* **uni** *port-list*

no gpon-profile entry *index*

Parameters

Parameters	Description
<i>index</i>	Designated flow mapping item index. The value ranges from 1 to 40.
<i>port-list</i>	The ONU user port list of flow mapping, such as 1, 3, 5-7. "All" means all user ports.

Default Value

gpon-profile entry 1 uni all

Command Mode

ONU flow mapping configuration template mode

Usage Guidelines

Each mapping item needs one user port at least.

Example

The following example shows how to configure the ONU flow mapping configuration template - onu-flow-mapping-test and map the flow mapping index 2 to the user port 1, 2 and 5.

Switch_config# **gpon profile onu-flow-mapping** *onu-flow-mapping-test*

Switch_config_prof_onuFlowmapping_onu-flow-mapping-test# **gpon-profile entry 2 uni** 1, 2, 5

6.2 GPON-Profile Vlan

Syntax

To configure ONU flow mapping item corresponding VLAN, run the following command.
To return to the default setting, use the no form of this command.

gpon-profile entry *index* **vlan** {*vid* | *start-stop*}

no gpon-profile entry *index* **vlan**

Parameters

Parameters	Description
<i>index</i>	Designated flow mapping item index. The value ranges from 1 to 40.
<i>vid</i>	Flow mapping needed ONU VLAN ID
<i>start-stop</i>	Flow mapping needed ONU VLAN ID range, such as 3 to 10.

Default Value

None

Command Mode

ONU flow mapping configuration template mode

Usage Guidelines

The VLAN range cannot outnumber 12 VLAN IDs.

Example

The following example shows how to configure the ONU flow mapping configuration template - onu-flow-mapping-test and map the flow mapping index 2 to the user port 1, 10 to 20.

```
Switch_config# gpon profile onu-flow-mapping onu-flow-mapping-test
```

```
Switch_config_prof_onuFlowmapping_onu-flow-mapping-test# gpon-profile entry 2 vlan 1 ,  
10-20
```

6.3 GPON-Profile Cos

Syntax

To configure ONU flow mapping item corresponding cos, run the following command.

To return to the default setting, use the no form of this command.

gpon-profile entry *index* **cos** *cos-list*

no gpon-profile entry *index* **cos**

Parameters

Parameters	Description
<i>index</i>	Designated flow mapping item index. The value ranges from 1 to 40.
<i>cos-list</i>	Cos list needs to be flow mapping, such as 1, 3, 5-7.

Default Value

None

Command Mode

ONU flow mapping configuration template mode

Usage Guidelines

Example

The following example shows how to configure the ONU flow mapping configuration template - onu-flow-mapping-test and map the flow mapping index 2 to the user port 1, 5 to 7.

```
Switch_config# gpon profile onu-flow-mapping onu-flow-mapping-test
```

```
Switch_config_prof_onuFlowmapping_onu-flow-mapping-test# gpon-profile entry 2 cos 1, 5-7
```

6.4 GPON-Profile Virtual-Port

Syntax

To configure ONU flow mapping item corresponding cos, run the following command.

gpon-profile entry *index* **virtual-port** *vp-index*

Parameters

Parameters	Description
<i>index</i>	Designated flow mapping item index. The value ranges from 1 to 40.
<i>vp-index</i>	Flow mapping objective virtual port index. The value ranges from 1 to 40.

Default Value

gpon-profile entry 1 virtual-port 1

Command Mode

ONU flow mapping configuration template mode

Usage Guidelines

Example

The following example shows how to configure the ONU flow mapping configuration template named -onu-flow-mapping-test and map the flow mapping index 2 to the virtual port 1, and 5-10.

```
Switch_config# gpon profile onu-flow-mapping onu-flow-mapping-test  
Switch_config_prof_onuFlowmapping_onu-flow-mapping-test# gpon-profile entry 2  
virtual-port 1, 5-10
```

Chapter 7 ONU VLAN Configuration Template

7.1 GPON-Profile Vlan Mode

Syntax

To configure ONU VLAN mode, run the following command.

gpon-profile vlan mode {transparent | tag | translation | trunk | vlan-stacking | aggregation}

To return to the default setting, use the no form of this command.

no gpon-profile vlan mode

Parameters

Parameters	Description
transparent	All VLAN will be transparented.
tag	Add PVID to the uplink untagged packet, otherwise, drop the uplink untagged packet. Remove and forward the tag, if the VLAN ID of the downlink packet is PVID.
translation	Add PVID to the uplink untagged packet; look up the tag packet in the translation entry, and if found, forward it. Otherwise, translate and forward the untagged packet. Remove and forward the tag, if the VLAN ID of the downlink packet is PVID. Otherwise, reverse look up in the translation entry, and if found, reverse forward it. Otherwise, drop the packet.
trunk	Add PVID to the uplink untagged packet; look up the tag packet in the available entry, and if found, forward it. Otherwise, drop the packet. Remove and forward the tag, if the VLAN ID of the downlink packet is PVID. Otherwise, look up in the translation entry, and if found, reverse forward it. Otherwise, drop the packet.
vlan-stacking	Add PVID to the uplink untagged packet; look up the tag packet in the translation entry, and if found, add outer tag forwarding. Otherwise, drop the packet. Remove and forward the tag, if the VLAN ID of the downlink packet is PVID. Otherwise, reverse look up in

	the translation entry, and if found, remove the tag and forward it. Otherwise, drop the packet.
aggregation	Temporary reservation. The current behavior consists with translation. Realization of the aggregation may be relevant with ONU.

Default Value

`gpon-profile vlan mode transparent`

Command Mode

ONU VLAN configuration template mode

Usage Guidelines

Example

The following example shows how to configure the ONU VLAN mode of ONU VLAN configuration template - onu-vlan-test to translation:

```
Switch_config# gpon profile onu-vlan onu-vlan-test
```

```
Switch_config_prof_onuVlan_onu-vlan-test# gpon-profile vlan mode translation
```

7.2 GPON-Profile Vlan Pvid

Syntax

To configure the ONU port default VLAN, run the following command. To return to the default setting, use the no form of this command.

gpon-profile vlan pvid vid

no gpon-profile vlan pvid

Parameters

Parameters	Description
<i>vid</i>	Configures the default VLAN. The value ranges from 1 to 4094.

Default Value

`gpon-profile vlan pvid 1`

Command Mode

ONU VLAN configuration template mode

Usage Guidelines

Example

The following example shows how to configure the ONU default VLAN of the ONU VLAN configuration template named `onu-vlan-test` to VLAN 2.

```
Switch_config# gpon profile onu-vlan onu-vlan-test
```

```
Switch_config_prof_onuVlan_onu-vlan-test# gpon-profile vlan pvid 2
```

7.3 GPON-Profile Vlan Translation-Entry

Syntax

To configure the translation entry of translation and vlan-stacking, run the following command. To return to the default setting, use the no form of this command.

```
gpon-profile vlan translation-entry old_vid new_vid
```

```
no gpon-profile vlan translation-entry old_vid
```

Parameters

Parameters	Description
<i>old_vid</i>	VLAN translation original vlan id. The value ranges from 1 to 4094.
<i>new_vid</i>	VLAN translation new vlan id. The value ranges from 1 to 4094.

Default Value

None

Command Mode

ONU VLAN configuration template mode

Usage Guidelines

VLAN translation item cannot exceed more than 12 VLAN IDs.

Example

The following example shows how to configure ONU VLAN configuration template named `onu-vlan-test` and translate translation and vlan-stacking from VLAN 1 and VLAN 100:

```
Switch_config# gpon profile onu-vlan onu-vlan-test
```

```
Switch_config_prof_onuVlan_onu-vlan-test# gpon-profile vlan translation-entry 1 100
```

7.4 GPON-Profile Vlan Trunk Vlan-Allowed

Syntax

To configure the vlan allowed range for the trunk mode, run the following command. To return to the default setting, use the no form of this command.

```
gpon-profile vlan trunk vlan-allowed vlan-list
```

```
no gpon-profile vlan trunk vlan-allowed vlan-list
```

Parameters

Parameters	Description
<i>vlan-list</i>	VLAN list, such as 30,31,40-48

Default Value

None

Command Mode

ONU VLAN configuration template mode

Usage Guidelines

The VLAN cannot outnumbers 12 VLAN IDs.

Example

The following example shows how to configure ONU VLAN configuration template named `onu-vlan-test` and vlan range for the trunk mode to 1, 5 to 10.

```
Switch_config# gpon profile onu-vlan onu-vlan-test
```

```
Switch_config_prof_onuVlan_onu-vlan-test# gpon-profile vlan trunk vlan-allowed 1, 5-10
```

7.5 GPON-Profile Vlan Ether-Type

Syntax

To use Ethernet type determined VLAN ID for the tag mode, run the following command.
To return to the default setting, use the no form of this command.

gpon-profile vlan ether-type {ipoe | pppoe | arp} vid

no gpon-profile vlan ether-type {ipoe | pppoe | arp} vlan

Parameters

Parameters	Description
<i>vid</i>	To be added VLAN ID

Default Value

None

Command Mode

ONU VLAN configuration template mode

Usage Guidelines

The Ethernet type will be preferentially considered to determine VLAN ID under the tag mode. Use pvid if there is no corresponding Ethernet type.

Example

The following example shows how to configure the ONU VLAN configuration template named onu-vlan-test and use VLAN ID 1 whose Ethernet type is ipoe under the tag mode.

```
Switch_config# gpon profile onu-vlan onu-vlan-test
```

```
Switch_config_prof_onuVlan_onu-vlan-test# gpon-profile vlan ether-type ipoe 1
```

Chapter 8 ONU User Interface Configuration Template

8.1 GPON-Profile Speed

Syntax

To configure the ONU user interface rate, run the following command. To return to the default setting, use the no form of this command.

gpon-profile speed {10 | 100 | 1000 | auto}

no gpon-profile speed

Parameters

Parameters	Description
10	Uses 10Mbps
100	Uses 100Mbps
1000	Uses 1000Mbps
auto	Uses auto-negotiation rate

Default Value

gpon-profile speed auto

Command Mode

ONU user port configuration template mode

Usage Guidelines

Example

To configure the user port rate of the user interface configuration template named onu-uni-test to 1000Mbps:

```
Switch_config# gpon profile onu-uni onu-uni-test
```

```
Switch_config_prof_onuEth_onu-uni-test# gpon-profile speed 1000
```

8.2 GPON-Profile Duplex

Syntax

To set the duplex mode of the ONU user port, run the following command. To return to the default setting, use the no form of this command.

gpon-profile duplex {full | half | auto}

no gpon-profile duplex

Parameters

Parameters	Description
full	Uses full duplex mode.
half	Uses half-duplex mode.
auto	Uses auto-negotiation duplex mode.

Default Value

gpon-profile duplex auto

Command Mode

ONU user port configuration template mode

Usage Guidelines

Example

To configure the user port dupelex mode of the ONU user port configuration template named onu-uni-test to full duplex mode.

Switch_config# **gpon profile onu-uni onu-uni-test**

Switch_config_prof_onuEth_onu-uni-test# **gpon-profile duplex full**

8.3 GPON-Profile Max-Frame-Size

Syntax

To set the maximum frame length of ONU user port, run the following command. To return to the default setting, use the no form of this command.

gpon-profile max-frame-size value

no gpon-profile max-frame-size

Parameters

Parameters	Description
<i>value</i>	Max frame length. The value ranges from 1500 to 2048.

Default Value

gpon-profile max-frame-size 1518

Command Mode

ONU user port configuration template mode

Usage Guidelines

Example

The following example shows how to configure the ONU port max frame length of the ONU user port configuration template named onu-uni-test to 2048:

```
Switch_config# gpon profile onu-uni onu-uni-test
```

```
Switch_config_prof_onuEth_onu-uni-test# gpon-profile max-frame-size 2048
```

8.4 GPON-Profile Eth-Wiring

Syntax

To configure ONU user port Ethernet line sequence type, run the following command. To return to the default setting, use the no form of this command.

gpon-profile eth-wiring {dce | dte | auto}

no gpon-profile eth-wiring

Parameters

Parameters	Description
dce	Uses DCE line sequence (MDI-X)
dte	Uses DTE line sequence (MDI)
auto	auto-selection

Default Value

`gpon-profile eth-wiring dce`

Command Mode

ONU user port configuration template mode

Usage Guidelines

Example

The following example shows how to configure the Ethernet line sequence of the Ethernet interface configuration module named `onu-uni-test` to DTE line sequence:

```
Switch_config# gpon profile onu-uni onu-uni-test
```

```
Switch_config_prof_onuEth_onu-uni-test# gpon-profile eth-wiring dte
```